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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS FOR CHARACTERIZING SIGNALING PATHWAYS AND COMPOUNDS THAT INTERACT THERE-
WITH

(57) Abstract: The genes in a signaling pathway can be identified by over or under-expressing each member of a set of genes to be grouped in signaling pathways and measuring parameters under stimulatory conditions. Genes in a common signaling pathway give similar parameter profiles under such conditions. Moreover, the interactions between signaling pathways and the genes and gene products that mediate those interactions can be determined by measuring the response of those pathways to stimuli under conditions that reflect a complex cellular environment. The order in which genes and their products transmit signals through signaling pathways can be determined by assaying the effects of activators and inhibitors on those genes and gene products, and the mechanism of action of a compound of interest can be determined by comparing parameter profiles generated by the compound of interest to those generated with compounds of known mechanism of action.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/12449

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : GO 1N 33/48, GO 1N 33/53

US CL : 702/19, 435/7.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 702/19, 435/7.1, 435/7.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/067103 A1 (Berg et al) 13 Sept. 2001 (13.09.2001), entire publication.	1-10
Y	Gopalan et al, The Journal of Immunology, 1997, Vol. 158, page 367-374.	1-10
Y	Cesaris et al, The Journal of Biological Chemistry, October 1999, Vol. 274, No. 41, pages 28978-82.	1-10
Y	Kim et al, The Journal of Biological Chemistry, April 18 1993, Vol. 278 No. 16, pages 13847-54.	1-10
Y	Brennan et al, The Journal of Biological Chemistry, January 12, 2002, Vol. 276, No. 2, pages 1195-1203.	1-10
Y	Tsang et al, The Journal of Immunology, 1997, Vol. 159, pages 4566-4577.	1-10

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Continuation of B. FIELDS SEARCHED Item 3:

East, Biosis, Compuscience, Biotechno, Medline, Embase, WPI covering search terms, cell assay, signaling pathway, recombinant, vector, expression, antisense, compound, drug, multidimensional, target, action, interaction.